

HOLDEN MINE REMEDIATION PROJECT

Monthly Construction Report

Multiple projects commence as the construction season continues to ramp up at the Holden Mine site. Contractors are working primarily on the bulkhead installation at the mine portals, clearing the selected pathways for the barrier wall alignment and the routes for Railroad Creek and Copper Creek relocations, and developing the rock quarry and borrow areas.



Completed Barge Ramp at Lucerne

Current Construction Activities:

Lucerne: The Lucerne barge ramp is complete and functional. Equipment and material are barged to Lucerne every couple of days using this newly established barge ramp. This will allow for equipment and material access to the site even when the lake water level is low.

Holden Mine: Bulkhead preparatory work continues at the main and ventilator portals. The main portal bulkhead has been successfully poured. Shotcrete is being applied at the main portal. The ventilator bulkhead pour will be completed after the shotcrete is finished. The bulkheads will restrict and regulate mine water drainage.

Crews are grading Tailings Pile 1 in preparation for the barrier wall geotechnical investigation. The barrier wall is projected to be constructed in the 2014 field season between Railroad Creek and Tailings Pile 1 and the western half of Tailings Pile 2. The barrier wall is designed to collect impacted groundwater that will be treated at the water treatment plant.



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Re-grading of Tailings Pile 1

Groundwork has begun at the rock quarry area east of Ten Mile Creek. The top cut slope of the quarry has been established and overburden material from the first planned bench of the quarry has been removed. Scaling of loose rock above quarry work area has been performed to improve safety for quarry operations. Vibration monitors have been installed in Holden Village in preparation for monitoring quarry blasting. The rock from this quarry will primarily be used for stream bank riprap for the creek relocations.



Overburden Material being removed at rock quarry

The Railroad Creek relocation area is in the process of being timbered and a road is being constructed from Forest Service 8301 road to the relocation area to provide access for site construction and material distribution.

The temporary maintenance building in Holden Village has been erected. Electricity and water system installations are near completion with only a few tests left before it can be utilized.

Construction Update Frequency: Holden Mine Construction Updates will be posted bi-weekly on the Holden Mine Cleanup webpage. If there are any questions about the progress of the project or about the information available please contact Elka Missal at (509) 682-4964.



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